

Tehničke specifikacije

Performance Parameters

Detailed Information:

Major Features:

- Bus and power supply isolation, high reliability, good anti-jamming capability
 - 16bit sampling precision, hardware filter technique, more accurate and stable measured values.
 - Reverse protection and surge absorption function of its power supply makes it adaptable to severe industrial environment.

Use Standard

- use shielded twisted pair to transmit signals and must have one end earthed
- When the system is in a good state, the earthed end must be connected to the ground wire, otherwise it is not earthed.
- it is suggested to use Trust PLC library function to read data from weigh module
- Calibration needed when replacing modules

When the system is dual-

channeled and has one transducer connected, another transducer should be short-circuited to avoid alarm or shift to uni-channel mode.

Specification	CTS7 231-7WB32
Power Consumption	5W
Power Consumption	
+5VDC consumed current	< 140mA
L+ consumed current	< 100mA
L+ Coil voltage range	20.4 - 28.8VDC
LED indicator	24 VDC Power Supply Good: ON = no fault, OFF = no power ;

	SF: ON=module fault, Blink=input signal error, OFF=normal;
Input type	Strain gauge , 4 or 6wire mode of connection
Input range	0~1mV/V 0~2mV/V 0~3mV/V 0~4mV/V
Input point	2AI
Isolation Features	
field side to logic circuit	500VAC
Field side to 24VDC	500VAC
24V to logic circuit	500VAC
Common-mode input range (from input channel to input channel)	0
Common mode rejection	>120dB@120VAC
Input Resolution	
temperature coefficient null point	$\leq \pm 0.1\mu\text{V/K}$
Principle of measurement	Sigma-Delta
length of conducting line to transducer	Maximum 500 meters
Noise suppression	85db@50Hz/60Hz
Data word format	Voltage : 0 to + 32000
Resolution	16 bits
Intrinsic error	0.05%Fs
Repeatability	0.1%Fs

Related Information

Library function of weigh module TrustPLC 231-7WB32.

Terminal Connection

Weighing module which is a measuring module of high-precision requires reliable measuring

low signal level (about 1.5uV). Thus, to make sure it works, it is important to choose a appropriate

assembly and cable connection.

While connect weighing transducer, following rules should be obeyed.

- If more than one transducer is going to be connected (if they are weighing transducers,

- they must be parallel connected), one junction box must be used. If the distance between

- weighing transducer and module or between weighing transducer and junction box is

- longer than the length of available cable of weighing transducer, a dedicated extension box

Should be used.

- Shield of cable should always reach as far as to cable gland of junction box or extension box.

- Use stranded wire to connect cable in certain circuit and keep it shielded.

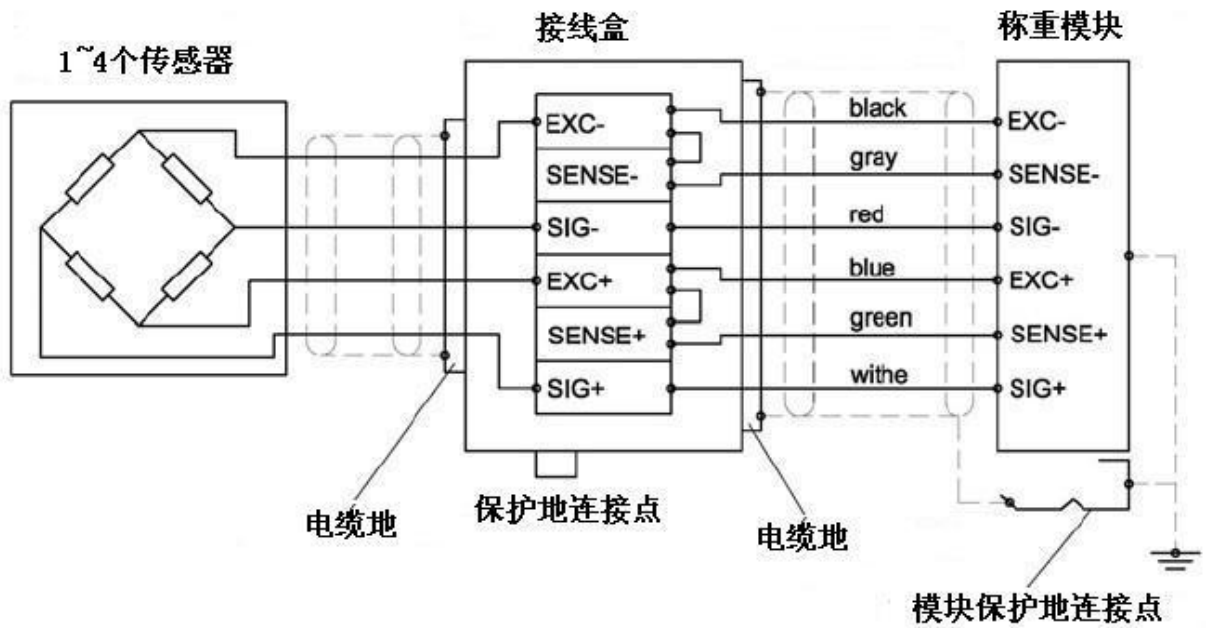
---transducer wire SEN+/SEN- ;

---measuring voltage coil SIG+/SIG- ;

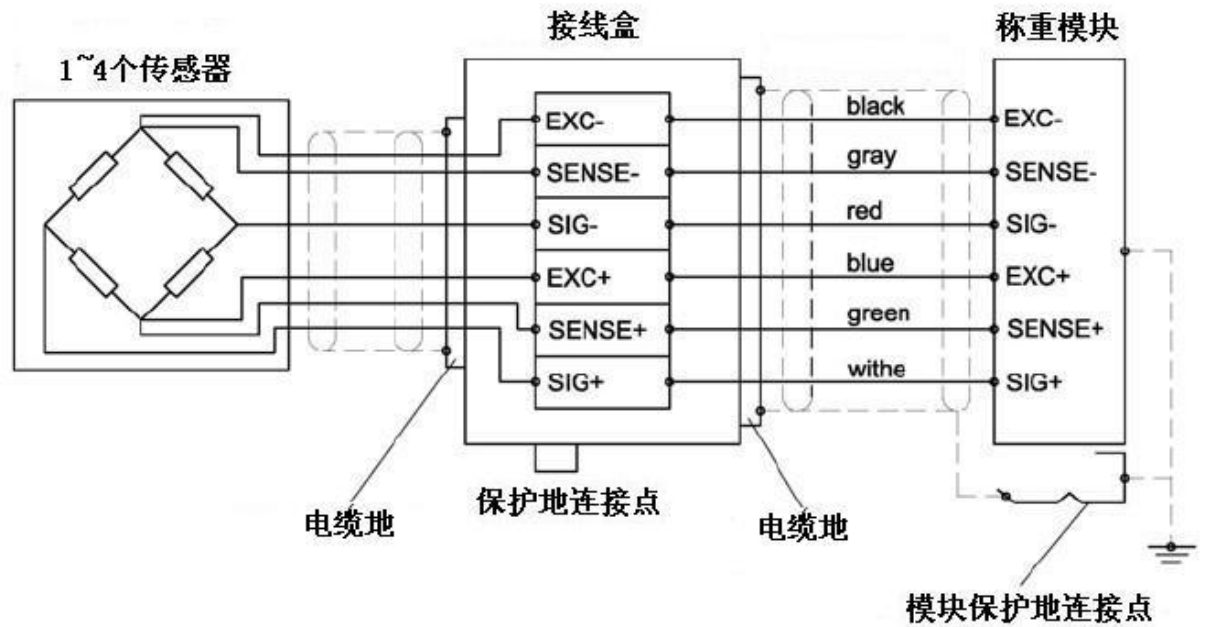
---supply voltage coil EXC+/EXC-.

·Shielded wire must be joint with shield connector.

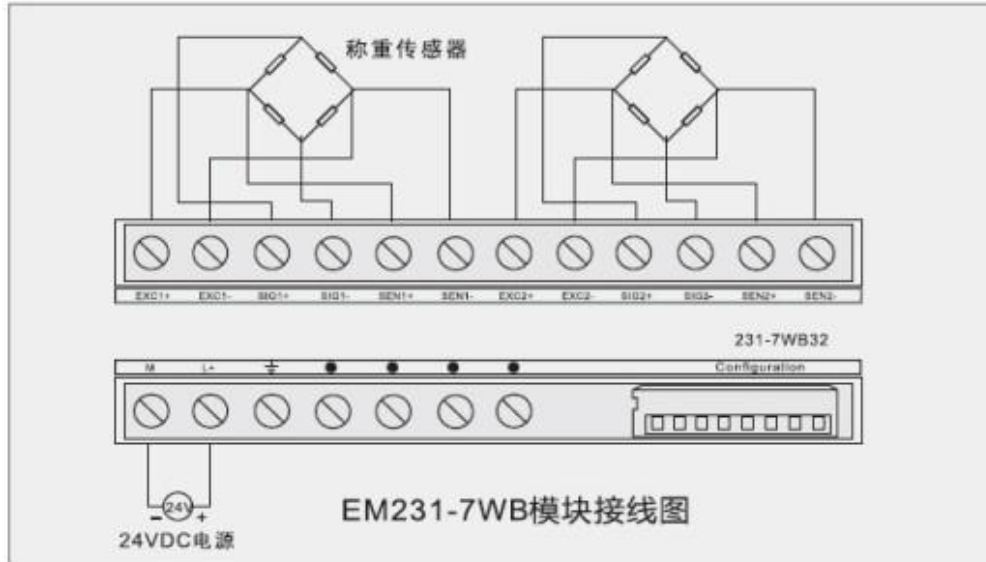
1. Four- Wire connection



2. When connect four-wire transducer, please make sure that EXC with SENS, EXC with SENS- are short circuited. Otherwise, the module may not work normally.
4. 2、Six-wire connection



5. 3、Module Connection Diagram



6. DIP Switch Setting

7.

DIP Switch Configuration		
Switch 1、2、3、4、5、6	setting	function
SW1、2	01	Choose 1mV/V transducer
	00	Choose 2mV/V transducer (default)
	10	Choose 3mV/V transducer
	11	Choose 4mV/V transducer
SW3	0	Choose dual channel working model (default)
	1	Choose uni-channel working model
SW4	0	Choose filter1 (default)
	1	Choose filter 2
SW5、6、7、8	00	Spare, reserved
Remark :		
Ø Default state : 000000		
Ø Which filter to be used is determined by software according to need of debug.		